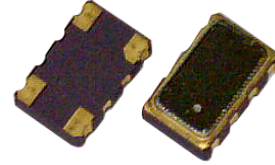


Features

- 9.6 to 40 MHz (2.8 and 3.0V supply)
- 9.6 to 25 MHz (with 5V supply)
- 3.2 mm x 2.5 mm x 1.3 mm ceramic SMD
- Compact and lightweight
- Clipped sine output

Picture of Part



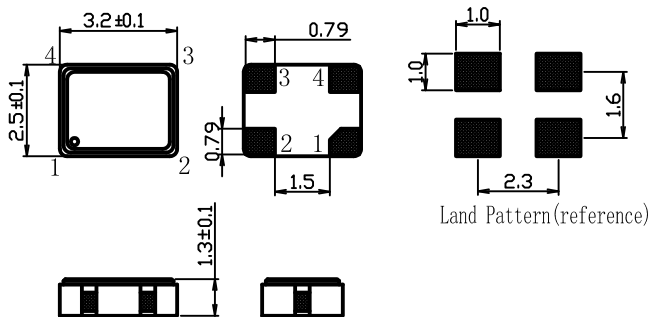
Typical Applications

- Wireless / Satellite Communications
- WLAN / WiMAX / WIFI
- SONET / SDH / ATM

Description

The TCXO3200M family offers a wide operating frequency range for a wide variety of applications. This cost effective family is manufactured with a number of standard frequencies: 10, 12.8, 13, 14.4, 15.36, 16.384, 19.2, 19.44, 19.68, 20, 25, and 27, and 38.4 MHz.

Physical Dimensions & Pin Connections



Pad Connections:
 Pad 1:Voltage control for VCTCXO;Ground for TCXO.
 Pad 2:Ground; Pin 3:Output Pin 4:Supply Voltage

Specification

TCXO Specification		Sym.	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency Range		f ₀		9.6		40	MHz	26 to 40MHz (2.8V and 3.0V) 9.6 to 25MHz for 5V supply option
Clipped Sine only	Load					10 10	pF Kohm	
	Output - level			0.8			Volt	Peak to peak minimum
Power supply								
Voltage		V _{cc}		2.850	3.000	3.150	V	2.8V and 5V available
Current consumption		I _{cc}			2.0	2.5	mA	
Frequency control*								
Control voltage range		V _c		0.5	1.5	2.5	V	Positive tuning slope
Input Impedance				1.0			Mohm	
Tuning range				+/- 6.0			ppm	
Tuning Linearity						10	%	BW measured at -3 dB
Modulation BW				3.0			KHz	
Frequency stability								
vs. temperature			-40°C to +85°C, ref 25°C	-1.0		+1.0	ppm	**Best Stability available
vs. 5% change in supply voltage			ref V _{cc} typ.	-0.300		+0.300	ppm	
Tolerance at 25C				-2.0		+2.0	ppm	Frequency 24 hrs after reflow
SSB Phase noise @ 13 MHz Typical			10 Hz			-80	dBc/Hz	
			100 Hz			-115		
			1 kHz			-135		
			10 kHz			-148		
			100 kHz			-148		
Aging	Per Year		Projected yearly aging after 30 days operation	-1.0		+1.0	ppm	
Environmental, mechanical conditions.								
Operating temperature range		-40°C to +85°C maximum range available that is standard						
Storage temperature range		-40°C to 85°C						

Ordering Information

TCXO3200M-XX.XXXXXX-W-Y-Z

1. Field " XX.XXXXXX " is the Output Frequency to six decimals in MHz
2. Field " W " is Operating Temperature Range and Freq. Stability :
 - a. " 0 " for -20°C to +70°C and +/- 1.000 ppm
 - b. " 1 " for -30°C to +75°C and +/- 1.000 ppm
 - c. " 2 " for -30°C to +85°C and +/- 1.000 ppm
 - d. " 3 " for -40°C to +85°C and +/- 1.000 ppm
 - e. " 4 " for -40°C to +85°C and +/- 1.500 ppm
 - f. " 5 " for -40°C to +85°C and +/- 2.000 ppm
 - g. " 6 " for -40°C to +85°C and +/- 2.500 ppm
 - h. " 7 " for -40°C to +85°C and +/- 3.000 ppm
 - i. " 8 " for -40°C to +85°C and +/- 5.000 ppm
 - j. ** NOT all frequencies available with option 3 and 4**
 - k. Please consult factory**
3. Field " Y " is Power Supply Option
 - a. " 0 " for 3.0 V +/- 5%
 - b. " 1 " for 2.8 V +/- 5%
 - c. " 2 " for 5.0 V +/- 5%
4. Field " Z " is TCXO (clock) or VCTCXO (voltage control)
 - a. " 0 " for TCXO
 - b. " 1 " for VCTCXO

Part Number Example

TCXO3200M-10.000000-3-0-1

10.000000 MHz Operating Frequency

Operating Temperature of -40°C to +85°C

+/- 1.000 ppm Frequency Stability

3.0 V +/- 5% supply

VCTCXO option (voltage-controlled frequency adjust)